

Revetment Block and Mat
Serial No.: 10/068,324
Atty. Docket #: ZL855-02001

IN THE CLAIMS

1. (currently amended) A revetment block, comprising:
 - a substantially rectangular block having a top surface and a bottom surface;
 - a first end and a second end extending vertically between said top surface and said bottom surface; and,
 - a first sidewall and a second sidewall each having at least one an upper vertical surface and a lower vertical surface and inwardly and outwardly extending transition surfaces between ~~said top surface and said bottom surface~~ upper vertical surface and said lower vertical surface.
2. (original) The revetment block of claim 1, wherein said first and said second sidewall and said transition surfaces define an interlock extending outwardly normal to said at least one vertical surface.
3. (previously presented) The revetment block of claim 1, wherein said first end and said second end are substantially parallel and said first and second sidewalls are substantially parallel.
4. (previously presented) The revetment block of claim 1 further comprising a first aperture and a second aperture extending from said top surface through said block.
5. (previously presented) The revetment block of claim 4, wherein said first aperture and said second aperture have first and second tapered walls and wherein an upper portion of said first and second apertures is larger than a lower portion of said first and second apertures.
6. (original) The revetment block of claim 1 further comprising a dome extending from said revetment block top surface.
7. (original) The revetment block of claim 6, said dome having a curvilinear wall extending

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from said top surface to a dome top surface.

8. (original) The revetment block of claim 1 having a plurality of ducts extending through said revetment block.

9. (original) The revetment block of claim 8 said plurality of ducts extending from said first end to said second end of said revetment block.

10. (currently amended) A revetment block, comprising:

a substantially rectangular block having a top surface and a bottom surface;

a first end and a second end extending vertically between said top surface and said bottom surface;

~~a first sidewall and a second sidewall each having at least one inclined transition surface between a plurality of vertical surfaces;~~

a first sidewall and a second sidewall each having an upper vertical surface and a lower vertical surface and inwardly and outwardly extending transition surfaces between said upper vertical surface and said lower vertical surface;

said first sidewall and second sidewall each having a first corner space and a second corner space defining an interlock, said interlock extending from said first sidewall and said second sidewall normal to said ~~plurality of upper and lower~~ vertical surfaces; and,

a dome extending from said top surface and having curvilinear walls.

11. (original) The revetment block of claim 10, wherein said first and second ends are substantially parallel and said sidewalls are substantially parallel.

12. (original) The revetment block of claim 10 further comprising a first and a second aperture

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extending from said dome upper plateau through said bottom surface of said block.

13. (original) The revetment block of claim 10, wherein said first and said second aperture have first and second tapered walls and wherein an upper portion of said apertures is larger than a lower portion of said apertures.

14. (original) The revetment block of claim 10 having a plurality of ducts extending through said revetment block.

15. (original) The revetment block of claim 14 said plurality of ducts extending from said first end to said second end of said revetment block.

16. (cancelled)

17. (currently amended) A revetment mat, comprising:

a plurality of revetment blocks having sidewalls a first sidewall and a second sidewall including interlocks extending from said sidewalls and corner spaces in said revetment blocks; said first sidewall and said second sidewall each having an upper vertical surface and a lower vertical surface and inwardly and outwardly extending transition surfaces between said upper vertical surface and said lower vertical surface;

~~at least two of said~~ first and second sidewalls being opposed sidewalls, said opposed sidewalls each having inwardly and outwardly extending transition surfaces defining said interlocks;

said interlocks engaging said corner spaces of blocks of an adjacent row;

a mattress formed of a plurality of rows of said revetment blocks in a running bond configuration.

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18. (original) The revetment mat of claim 17 further comprising at least one cable extending through said rows of said mattress.
19. (original) The revetment block of claim 17 wherein said mattress further comprises half-size revetment blocks on alternating rows.
20. (currently amended) A revetment block, comprising:
- a substantially rectangular revetment block having tapered interlocks extending from a first sidewall and a second sidewall;
- said first sidewall and said second sidewall each having an upper vertical surface and a lower vertical surface and inwardly and outwardly extending transition surfaces between said upper vertical surface and said lower vertical surface;
- ~~said tapered interlocks defining corner spaces having vertical and inclined transition surfaces therein;~~
- said interlocks and said corner spaces being sized to operably engage adjacent rows of revetment blocks and form a revetment mattress.
21. (original) The revetment block of claim 20 having apertures extending from a top surface to a bottom surface.
22. (original) The revetment block of claim 20 having a plurality of ducts extending from a first end to a second end of said revetment block.
23. (original) The revetment block of claim 20 having a dome extending from a top surface.
24. (original) The revetment block of claim 23, said dome having curvilinear walls.
25. (currently amended) A revetment block, comprising:

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a substantially rectangular block having a top and a bottom surface;

a first end and a second end extending vertically between said top surface and said bottom surface;

~~a first sidewall and a second sidewall each having at least one vertical surface and inwardly and outwardly extending inclined transition surfaces between said top surface and said bottom surface~~ a first sidewall and a second sidewall each having an upper vertical surface and a lower vertical surface and inwardly and outwardly extending transition surfaces between said upper vertical surface and said lower vertical surface;

said first sidewall and said second sidewall each having at least one tapered interlock extending from said at least one vertical surface.

26. (previously presented) The revetment block of claim 25 wherein said first end and said second end are substantially parallel and wherein said first sidewall and said second sidewall are substantially parallel.

27. (previously presented) The revetment block of claim 26 wherein a first aperture and a second aperture extend from said top surface and through said bottom surface.

28. (original) The revetment block of claim 25 further comprising ducts extending from said first end to said second end.

29. (original) The revetment block of claim 25 further comprising a dome extending from said top surface.

30. (currently amended) A revetment block, comprising:

a substantially rectangular block having a top surface and bottom surface;

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a first and a second end extending vertically between said top surface and said bottom surface;

~~a first sidewall and a second sidewall each having a plurality of vertical surfaces and inwardly and outwardly extending inclined surfaces between said plurality of vertical surfaces;~~

a first sidewall and a second sidewall each having an upper vertical surface and a lower vertical surface and inwardly and outwardly extending transition surfaces between said upper vertical surface and said lower vertical surface;

said first and second sidewalls each having at least one interlock extending in a tapered manner from said at least one vertical surface; and,

a dome extending from said top surface.

31. (original) The revetment block of claim 30, further comprising a plurality of corner spaces defined by said tapered interlock, each of said plurality of corner spaces having a transition surface and a vertical surface therein.

32. (previously presented) The revetment block of claim 30 further comprising a first aperture and a second aperture having at least two tapered walls.

33. (previously presented) The revetment block of claim 30 having a plurality of ducts extending between said first end and said second end.

34. (currently amended) A revetment block, comprising:

a substantially rectangular revetment block having tapered interlocks extending from a first sidewall and a second sidewall;

~~said first sidewall and said second sidewall having inwardly and outwardly inclined~~

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transition surfaces;

said first sidewall and said second sidewall each having an upper vertical surface and a lower vertical surface and inwardly and outwardly extending transition surfaces between said upper vertical surface and said lower vertical surface;

said tapered interlocks defining corner spaces having tapered and vertical surfaces therein;

said interlocks and corner spaces being sized to operably engage revetment blocks of adjacent rows and form a revetment mattress.

35. (currently amended) A revetment mat, comprising:

a plurality of revetment blocks having a first sidewall and a second sidewall[[s]], said ~~sidewalls having inwardly and outwardly inclined transition surfaces,~~ said first sidewall and said second sidewall each having an upper vertical surface and a lower vertical surface and inwardly and outwardly extending transition surfaces between said upper vertical surface and said lower vertical surface, and tapered interlocks extending from said sidewalls defining four corners spaces in said revetment blocks;

said interlocks engaging said corner spaces of revetment blocks of an adjacent row forming a running bond;

said mattress formed of a plurality of rows of said revetment blocks.

36. (original) The revetment mat of claim 35, wherein said plurality of rows are interconnected by at least one cable extending through said plurality of blocks.

37. (currently amended) A revetment block, comprising

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a first end and a parallel second end extending between a top surface and a bottom surface;

a first sidewall and a substantially parallel second sidewall;

~~said first sidewall and said second sidewall each having a first lower vertical surface and first and second upper vertical surfaces;~~

~~a first transition extending outwardly between said first lower vertical surface and said first upper vertical surface;~~

~~a second transition extending inwardly between said first lower vertical surface and said second upper vertical surface;~~

said first sidewall and said second sidewall each having an upper vertical surface and a lower vertical surface and inwardly and outwardly extending transition surfaces between said upper vertical surface and said lower vertical surface;

said first and second sidewalls each said first transition and said first upper vertical surface defining an interlock[[]] and a corner space.

~~said interlock, said second transition surface, and said second upper vertical surface defining a corner space.~~

38. (currently amended) The revetment block of claim 37, said interlock extending outward from said sidewall normal to said second upper vertical surface.

39. (currently amended) The revetment block of claim 37, said interlock extending outward from said second upper vertical surface and being tapered.